SKI (SPSS : regression user guide)

Download the file « skigb.xls » on your computer. Close it.
Import it into SPSS : open data : xls

1)   Give the descriptive statistics of the two variables "Price of a ski pass" and "Number of ski runs", and compare the box plots.

Action SPSS : **« Analyse », « descriptives statistics », « Descriptives » Take the variables Price ski pass and Nb ski runs**

Action SPSS : **« Graphs », « Box plots », « Simple », « Summary of separates variables ». Take the variables Price ski pass and Nb ski runs**

2) Make the graph relating "Price of ski pass" and "Number of ski runs".

Action SPSS : **« Graphs », « Scatter », « simple »,**
In X Axis : Nb ski runs and in Y Axis : Price ski pass.

3) Study the simple regression between the price of ski pass and number of ski runs.

Action SPSS : **« Analyse », « Regression », « Linear »**
In dependent: Price ski pass and in independent : Nb ski runs.
Write the equation of regression, R, R2 and standard error of residual (you can also do ANALYZE/CORRELATE/BIVARIATE/PEARSON)
Make a residual analysis (with Save and after ANALYZE/REPORTS/CASE SUMMARIES.).
If you want to select cases (for example to exclude outliers) : DATA/SELECT CASES/IF CONDITIO IS SATISFIED

4) Give an estimated price for a station with 50 ski runs (with a precision interval).